Amendments to the Claims:

system and the projection optical system,

The following listing of claims will replace all prior versions, and listings, of claims in the application:

(Currently Amended) A projector comprising: 1. an illumination optical system for emitting a light; an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; a projection optical system for projecting a modulated light generated by the electro-optical device; and an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system, the rock crystal member being disposed not to change a polarizing state of light passing through the rock crystal member. (Currently Amended) The projector in accordance with claim 1A projector 2. comprising: an illumination optical system for emitting a light; an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; a projection optical system for projecting a modulated light generated by the electro-optical device; and an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a light passing through the rock crystal member.

3. (Original) The projector in accordance with claim 2, wherein the light passing through the rock crystal member is linearly polarized light, and

the rock crystal member is disposed in such a manner that the Z axis of the rock crystal is substantially parallel to or substantially perpendicular to an electric vector of the linearly polarized light.

linearly polarized light.			
4. (Currently Amended) The projector in accordance with claim 1 A projector			
comprising:			
an illumination optical system for emitting a light;			
an electro-optical device for modulating the light emitted from the			
illumination optical system in response to image information;			
a projection optical system for projecting a modulated light generated by the			
electro-optical device; and			
an optical component having a rock crystal member composed of rock crystal,			
the optical component being located in an optical path including the illumination optical			
system and the projection optical system,			
wherein the rock crystal member is disposed in such a manner that a Z axis of			
the rock crystal is substantially parallel to a center axis of a light passing through the rock			
crystal member.			
5. (Currently Amended) The projector in accordance with claim 1A projector			
comprising:			
an illumination optical system for emitting a light;			

an electro-optical device for modulating the light emitted from the			
illumination optical system in response to image information;			
a projection optical system for projecting a modulated light generated by the			
electro-optical device; and			
an optical component having a rock crystal member composed of rock crystal,			
the optical component being located in an optical path including the illumination optical			
system and the projection optical system,			
wherein the optical component comprises:			
a rock crystal substrate as the rock crystal member; and			
an optical element provided on the rock crystal substrate,			
wherein a Z axis of the rock crystal substrate is set to be substantially parallel			
to a surface of the substrate.			
6. (Original) The projector in accordance with claim 5, wherein			
the optical element is a polarizing plate, and			
the polarizing plate is provided on the rock crystal substrate in such a manner that a			
polarization axis of the polarizing plate is substantially parallel to or substantially			
perpendicular to a Z axis of the rock crystal.			
7. (Currently Amended) The projector in accordance with claim 1 A projector			
comprising:			
an illumination optical system for emitting a light;			
an electro-optical device for modulating the light emitted from the			
illumination optical system in response to image information;			
a projection optical system for projecting a modulated light generated by the			
electro-optical device; and			

	an optical component having a rock crystal member composed of rock crystal,			
the optical component being located in an optical path including the illumination optical				
system and the projection optical system,				
	wherein the optical component comprises:			
	a rock crystal substrate as the rock crystal member; and			
	an optical element provided on the rock crystal substrate,			
	wherein a Z axis of the rock crystal substrate is set to be substantially			
perpendicular to a surface of the substrate.				
8.	(Currently Amended) The projector in accordance with claim 1 A projector			
comprising:				
***	an illumination optical system for emitting a light;			
-	an electro-optical device for modulating the light emitted from the			
illumination o	optical system in response to image information; and			
	a projection optical system for projecting a modulated light generated by the			
electro-optica	l device, wherein			
	the electro-optical device has a pair of substrates,			
	at least one of the pair of substrates is a rock crystal substrate composed of as-			
the rock crystal member, and				
	a Z axis of the rock crystal substrate is set to be substantially parallel to or			
substantially J	perpendicular to a surface of the substrate.			
9.	(Currently Amended) The projector in accordance with claim 1A projector			
comprising:				
	an illumination optical system for emitting a light;			
	an electro-optical device for modulating the light emitted from the			
illumination optical system in response to image information;				

a projection optical system for projecting a modulate	d light generated by the
electro-optical device; and	
an optical component having a rock crystal member of	composed of rock crystal,
the optical component being located in an optical path including the	illumination optical
system and the projection optical system, wherein the rock crystal m	nember is a lens.
10. (Currently Amended) The projector in accordance v	vith claim 1A projector
comprising:	
an illumination optical system for emitting a light;	·
an electro-optical device for modulating the light em	itted from the
illumination optical system in response to image information; and	
a projection optical system for projecting a modulate	d light generated by the
electro-optical device,	
wherein the illumination optical system comprises a	polarized light generation
section for emitting a predetermined polarized light,	
the polarized light generation section comprising:	
the an optical component for dividing an incident lig	ht into two different
polarized lights; and	
a selective retardation plate for adjusting one of the t	wo polarized lights output
from the optical component to the other,	
the optical component comprising:	
a plurality of the rock crystal members composed of	rock crystal and arrayed
in a predetermined direction; and	
a polarization separation film and a reflection film th	at are alternately arranged
on interfaces of the plurality of rock crystal members.	

11.	(Currently Amended) The projector in accordance with claim 1 A projector		
comprising:			
	an illumination optical system for emitting a light;		
	an electro-optical device for modulating the light emitted from the		
illumination	optical system in response to image information; and		
	a projection optical system for projecting a modulated light generated by the		
electro-optic	al device,		
	wherein the illumination optical system comprises a polarized light generation		
section for e	mitting a predetermined polarized light,		
	the polarized light generation section comprising:		
	the an optical component for dividing an incident light into two different		
polarized lights; and			
	a selective retardation plate for adjusting one of the two polarized lights output		
from the optical component to the other,			
	the optical component comprising:		
	the a rock crystal member composed of rock crystal; and		
	a polarization separation film formed on the rock crystal member.		
12.	(Currently Amended) A projector comprising:		
	an illumination optical system for emitting a light;		
	a color light separation optical system that divides the light emitted from the		
illumination	optical system into first through third color lights respectively having three color		
components	;		
	first through third electro-optical devices that modulate the first through the		
third color l	ights divided by the color separation optical system in response to image		
information, so as to generate first through third modulated lights;			

a color light composition optical system for combining the first through the third modulated lights; a projection optical system for projecting composite light output from the color light composition optical system; and an optical component having a rock crystal member composed of rock crystal, the optical component being located in an optical path including the illumination optical system and the projection optical system, the rock crystal member being disposed not to change a polarizing state of light passing through the rock crystal member. (Currently Amended) The projector in accordance with claim 12A projector 13. comprising: an illumination optical system for emitting a light; a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components; first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights; a color light composition optical system for combining the first through the third modulated lights; a projection optical system for projecting composite light output from the color light composition optical system; and an optical component having a rock crystal member composed of rock crystal.

the optical component being located in an optical path including the illumination optical

system and the projection optical system,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a light passing through the rock crystal member.

14. (Original) The projector in accordance with claim 13, wherein the light passing through the rock crystal member is linearly polarized light, and the rock crystal member is disposed in such a manner that the Z axis of the rock crystal is substantially parallel to or substantially perpendicular to an electric vector of

the linearly polarized light.

	15.	(Currently Amended) The projector in accordance with claim 12A projector
compris	sing:	
		an illumination optical system for emitting a light;
		a color light separation optical system that divides the light emitted from the
illumina	ation o	ptical system into first through third color lights respectively having three color
compor	<u>ients;</u>	
		first through third electro-optical devices that modulate the first through the
third co	lor lig	hts divided by the color separation optical system in response to image
<u>informa</u>	ition, s	o as to generate first through third modulated lights;
		a color light composition optical system for combining the first through the
third m	odulate	ed lights;
		a projection optical system for projecting composite light output from the
color li	ght cor	mposition optical system; and
		an optical component having a rock crystal member composed of rock crystal.
the opti	ical co	mponent being located in an optical path including the illumination optical
system	and th	e projection optical system,

the rock crystal is substantially parallel to a center axis of a light passing through the rock crystal member. (Currently Amended) The projector in accordance with claim 12A projector 16. comprising: an illumination optical system for emitting a light; a color light separation optical system that divides the light emitted from the illumination optical system into first through third color lights respectively having three color components; first through third electro-optical devices that modulate the first through the third color lights divided by the color separation optical system in response to image information, so as to generate first through third modulated lights; a color light composition optical system for combining the first through the third modulated lights; and a projection optical system for projecting composite light output from the color light composition optical system, wherein at least one of the color light separation optical system and the color light composition optical system comprises the an optical component, and the optical component comprises: the four columnar rock crystal members composed of rock crystal and divided by a substantially X-shaped interface; and a selector film formed on the interface to select light having wavelength in a predetermined range. (Currently Amended) The projector in accordance with claim 12A projector 17. comprising:

wherein the rock crystal member is disposed in such a manner that a Z axis of

an illumination optical system for emitting a light;
a color light separation optical system that divides the light emitted from the
illumination optical system into first through third color lights respectively having three color
components;
first through third electro-optical devices that modulate the first through the
third color lights divided by the color separation optical system in response to image
information, so as to generate first through third modulated lights;
a color light composition optical system for combining the first through the
third modulated lights; and
a projection optical system for projecting composite light output from the
color light composition optical system,
wherein at least one of the color light separation optical system and the color
light composition optical system comprises the an optical component, and
the optical component comprises:
the a rock crystal member composed of rock crystal; and
a selector film formed on the rock crystal member to select light having
wavelength in a predetermined range.
18. (New) A projector comprising:
an illumination optical system for emitting a light;
an electro-optical device for modulating the light emitted from the
illumination optical system in response to image information;
a projection optical system for projecting a modulated light generated by the
electro-optical device; and
an optical component having a rock crystal substrate composed of rock crystal
and a polarizing plate provided on the rock crystal substrate, the optical component being

located in an optical path including the illumination optical system and the projection optical system.

19. (New) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the

illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the electro-optical device has a pair of substrates,

at least one of the pair of substrates is a rock crystal substrate composed of rock crystal.